The 50 MHz DX Bulletin

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The 50 MHz DX Bulletin was founded by Harry Schools K3HS. It is dedicated to the understanding and utilization of long distance propagation in the 6-meter Amateur band. The current editor and publisher is Victor Frank, K6FV. Subscription rates are $24 U.S. first class mail, $27 Canada/Mexico airmail, and $30 by airmail elsewhere for 12 issues. Circulation matters and DX reports should be sent to Victor R. Frank, K6FV, 12450 Skyline Blvd., Woodside, CA 94062-4554 USA. My Internet address is victor.frank@sri.com. I have a web site that hasn't been updated in a long time for various classes I took at http://www.qsl.net/k6fv.

DX Operations

Most of the listings in this column came from SM7AED's notebook and SMIRK.

Rodrigues Island, 3B9C: A multinational team of 29 operators will be active on all bands and modes with up to fifteen high-power stations. Look for them to be active by March 20, with the team leaving the island April 14. See web site: http://www.fsdxa.com/3b9c, which indicates 50.102 cw, 50.145 ssb, and 50.090 beacon.

Togo, 5V7C: F5VHQ and F5TVG plan to arrive early on March 4 to pick up the licenses and install the gear and test it out, so there's a possibility of working them earlier than the scheduled operation from March 6-12.

D.R. Congo, 9Q0AR: Gus, SM5DIC plans to go to Congo Kinshasa January 20 and stay there for two months, operating HF and 6m.
TN3S: Sal should be QRV on 80-6m until October 2005. Typically he may be found on 21.185 around 2130z.

Namibia, V51/DJ4SO: Klaus plans to operate 160-6m between February 25 and March 15.

Capri, IC8/: A group of Italian radio amateurs plans to operate HF+6m from Vivara Island (EU-031) on March 13.

Faroe Is., OY: Kevin, ON5DRE, and Erwin, ON4QJ, plan HF-6-2m operation between May 3-13.

Bermuda Is., VP9: Jon, N0JK, plans to operate 6 and 2m from June 10-15.
W3CMP plans operation from VP9GE from June 26-July 5 "to use up the rest of the QSL cards I had printed. ."

Cuba, CO/I0SNY: Nicola plans 17,12,and 6m operation from Caibarien on March 9-27.

Belize, V31AD: A group of W5s plan to operate HF and possibly 160 & 6m from Placencia between March 13-20.
V31RG: Robin, K4VU, and Lori, K0LAA, plan to operate 160-6m on April 7-24.

Cayman Is., ZF1A: Jim, K4BI, ZF1DC, and 3 additional ops plan to operate 6 and 2m (including 2m EME) from Grand Cayman. They will be arriving several days prior to the contest (June 12-13) and staying a few days afterward.

Dominica, J7/W6JKV: plans operating from a location on the north end with a good view over water toward Europe and USA from June 24 to July 5.

St. Maarten, PJ7: K4BI & K2ZD will be operating 50 MHz only from a rented house that overlooks the ocean with clear paths to EU, AF, & USA from July 2-12.

Revilla Gigedo, XF4IH: A group of radio amateurs plan to operate HF +6+2+2/3 and satellite from Socorro Island (NA-030) from March 3-20.

Norfolk Is., VK9NB: Babs, DL7AFS, and Lot, DJ7ZG, plan to operate 80-6m from OC-005 from March 1-15.

DX Operations Retrospective

How did they do? I have looked over OH2AQ reports to see what activity was reported for various dx stations and expeditions that advertised that they would include 6m. Indeed 6m propagation has not been all that great, but some of these dx stations just don't have what it takes to work 6m DX in the absence of wide-spread F2 propagation.

Vietnam, 3W2B: No reports on any band.
Cambodia, XU7AAA: Reports are between 7-21 MHz
Amsterdam Is., FT1ZL: in MF82 is waiting for 6m openings, but there have no reports of him on any band.
Kenya, 5Z4HW: Sigi, DL7DF, was here in the latter half of February, but the only reports of him are between 7-28 MHz.
Namibia, V51/DJ4SO: As of March 1 (Klaus is supposed to be there until March 15), only HF (7-24 MHz) has been reported.
Togo, 5V7BR: Only HF reports.
D.R. Congo, 9Q0AR: First reports started February 23, all 20, 15, and 10m.
Capri, IC8/: One 6m QSO, with IK8DYD, was listed.
Bahamas, C6APX: One 6m report on Feb 12 by NW5E.
Turks & Caicos, VP5/K7BV: Widespread 6m reports Feb 26-March 1 (The planned operation was Feb 19-26.)
Dominica, J73CCM: One 6m report by a PY on Feb 16, otherwise 7-21 MHz.
French St. Martin, FS/K3LP: Only HF spots.
Montserrat, VP2MEG: Keith promised 6m activity. I found one 80m contact listed on Feb. 21.
Antigua, V26DX: Jim, K4BI, may have been pleasantly surprised his previous 3 trips. This time his expectations played true, no 6m reports, ten HF reports: 18, 21, 24, & 28 MHz.
Peru, Chimus Is. OC3I: A group of Peruvians activated SA-074, and were reported on 80,20, & 10m, between Feb 11-16 They self-spotted a beacon on 50.036, and there were four 6m reports from W5s on February 15.
OA7/PA3GFE: So far, only 7-28 MHz reports, but he's there until mid-April at least.
Lord Howe Is., VK9LB: 6m was to be available on a limited basis, possibly via an ATU to a multiband HF antenna. No beacon, no continuous 50.110 watch! Lots of HF reports, NIL on 6m.

What is SMIRK and Why?

SMIRK exists to promote six meter operation all over the world. You can join the roughly 7000 members of SMIRK by working six of them and submitting their calls, SMIRK numbers, and a membership fee of US $6 (or 6 IRCs) to Six Meter International Radio Klub, 219 US 377 South, Junction, TX 76849, USA. Dues are $6 per year.

Solar Minimum (Cycle 23) Strategic Goals

As we approach the solar minimum of Cycle 23 and the prospect of intercontinental band openings diminishes, the board of directors has determined a set of strategic goals to work for. Jon Jones, N0JK, was instrumental in providing the impetus for the direction SMIRK will take. There are five main areas that SMIRK will concentrate on during the solar minimum:

1) Support and encourage DX activity within multi-hop Es range of North America and Europe. This could be "6M only" and "HF + 6M" DXpeditions as well as resident local activity in places like J3, V4, 6Y, etc. Look at the "real rare ones" in the Carib. and NA like CY9 (still needed by many), CY0, FO0 Clipperton, FP (still needed), HK0, HK0M, KP1, KP5, YV0 Aves, 4U1UN, and XF4. KP1, KP5, TI9 and YV0 Aves are some real tough ones to do...

2) Supporting and encouraging 6M EME DXpeditions and resident 6M EME activity in all parts of the world.

3) Placing/supporting 6M beacons that would help spot 6M Es openings of interest. The VP9DUB beacon is an example of a beacon that will help both NA and EU operators.

4) Begin an education campaign to instruct new six meter operators on the band plan, calling frequencies, DX window, and operating etiquette and courtesy. The UKSMG code of conduct is a prime example of good operating procedure and should be the model.

5) Continue to promote the use of six meters through contests, supporting six meter dxpeditions and other high visibility options.

As we work through the solar minimum to Cycle 24 SMIRK is developing a long range plan to accomplish the goals we have set forth.

Cycle 24 Strategy

1) Place/support 6M beacons that will help spot F2 openings of interest, i.e.,. Easter Island, South Pacific, etc.

2) Supporting and encouraging DX activity at the peak of solar cycle 24. Including "6M only," "HF + 6M" DXpeditions, and resident local 6M activity.

3) Continue to support and encourage 6M EME activity.

4) Consider working with UKSMG and other 6M organizations and possibly some of the HF DX groups to encourage and support 6M DXing.

RECENT SMIRK DX EFFORTS

SMIRK promotes DX activity on six meters by contributing to DXpeditions to rare locations and even arranging donations of rigs to overseas operators who show a serious commitment to operating on six meters. In some parts of the world, six has only recently become available to amateur operation and thus equipment for the band is quite difficult to obtain. This support SMIRK provides, contributes to the operating pleasure for everyone on the band.

1. Contributed to CY9AA and CY0AA DXpeditions.
2. Contributed 6M radio to VP6BR in Pitcairn Island to remain on the island.
3. Contributed support for C21JH DXpedition December 2000.
4. SMIRK, Bob Magnani, K6QXY, and Pat Rose, W5OZI have contributed a M2 6 meter antenna, LMR coax, Kenwood TS-60 transceiver to the CE0XT DXpedition that took place in February, 2001.
5. SMIRK and Dale Richardson, AA5XE, have provided a six meter antenna to Alan, KI7WO for his trip to Costa Rica in October 2001.
6. Bob Magnani, K6QXY, and SMIRK have provided a six meter antenna and LMR 400 coax to the Conway Reef expedition in October 2001.
7. SMIRK has allocated funds to build, ship, install, and maintain a beacon for Easter Island. (In progress).
8. Provided financial support to TI9M, Cocos Island DXpedition.
9. Provided financial support to FP/K1TOL & FP/N1RZ DXpedition.
10. Provided financial support to PW0T DXpedition.
11. Provided financial support to CY0MM DXpedition.
12. Provided financial support to ST0RY DXpedition.
13. Provided financial support to 5V7C DXpedition, March 2004.

If you wish to donate to provide assistance to dxpeditions or to help provide six meter equipment to an overseas operator you may use PayPal. Please contact the Secretary if you have equipment you would like to donate. Thank you.

Silent Keys

Another two U.S. VHFers became silent keys this month, W5VAS and K6PXT.

Field-Aligned Irregularities

Many, many years ago, when I was WB6KAP, it was known as X-mode. During summer evenings, when six meter sporadic-E openings began to fade, we could hear and work stations on non-direct paths, usually to the north of great circle. Stations to the north could be heard either to the east or west of great circle. Signals had a hollow fading sound, but they were not as spread as those heard during an aurora.

Fast forward to November 1974. Recently declassified research was published in Radioscience, QST, and Ham Radio. The research involved heating the ionosphere and artificially creating field-aligned irregularities in the F and E regions with very powerful radio transmissions at 3-10 MHz beamed upwards from a site at Platteville, CO. These irregularities were capable of backscattering signals all the way from HF to low UHF. They were created at heights where the local ordinary-ray plasma frequency was just below the high-power transmitter frequency. Certain geometrical considerations had to be satisfied for observing the VHF/UHF backscattering. For co-located receiver and transmitter, VHF scattering would be observed from those heights where the ray was perpendicular to the earth's magnetic field. For separated receiver and transmitter, the rays from each had to be the same angle, but opposite side from perpendicular. Scattering was essentially into a cone whose axis was a geomagnetic field line. The scattering cross section fell off with frequency, amateurs could communicate on 10, 6, and 2 meters. 220 MHz seemed to be beyond the limit for amateur facilities.

The prevailing view among atmospheric scientists is that midlatitude sporadic-E layers are composed of metallic-ions. They occur mostly between 100 and 115 km. The metallic ions congregate due to the effects of neutral wind shears and the earth's magnetic field. Many sporadic-E layers are observed to "move," generally from E to W but also N to S. Whether this movement is due to bulk movement of the congregated metallic ions, or due to the movement of the neutral wind shears is an open question. Sometimes the layers just move out of our field of view, but often, on summer nights they decay or break up.

We now know that when a nighttime Sporadic-E layer breaks up, some areas deplete faster than others, creating elongated "holes" aligned with the earth's magnetic field. These holes are capable of coherently scattering VHF waves in a manner similar to the field-aligned irregularities which were produced in the ionospheric heating experiments described earlier. The main difference between the two is that the ionospheric heating experiments created a localized effect, over the heater, while sporadic-E can occur over wide areas simultaneously. The other difference is that ionospheric heating produced an effect that was localized in altitude, most often in the F region, while sporadic-E occurs most frequently at altitudes between 100 and 120 km.

The December 2003 issue of *Journal of Geophysical Research, Ionosphere and Upper Atmosphere*, had two articles dealing with coupling between unstable sporadic-E layers and midlatitude spread F. The term "unstable" refers to the condition described in the previous paragraph.

A variety of experimental sensors were used. Perhaps the one of most interest to 6m operators was a CW Doppler radar called SESCAT (Sporadic-E SCATter) operating at 50.52 MHz from the northern coastline of Crete. The transmitter antenna consisted of an array of four 11-element Yagis separated by 8m which provided an overall 3-dB beamwidth of 8°. The receiving site had an array of 11-element Yagis separated by 8m with a beamwidth of 16°. Both antennas were directed northward to a region 170-210 km away where perpendicularity to the geomagnetic field was obtained at E-region heights.

Other experimental sensors included CASI (Cornell All-Sky Imager) on the Greek island of Milos near the E-region scattering volume monitored by SESCAT. CASI uses a thinned and back-illuminated CCD that is liquid-cooled. In addition to wide-band images used for correction and star removal, the instrument had narrow-band optical filters at 557.7-nm (green), 630.0-nm (red), and 777.4-nm (infrared). Green airglow emissions are predominately from the E-region, and the red airglow emissions are predominately from the F-region. Both are due to transitions of electron states of atomic oxygen. Their intensity is proportional to the number of transitions per unit time, which varies roughly with the number of ions present of the particular species.

Ionosonde data was obtained from a digisonde at the new ionospheric station at Penteli (38°N, 23.5°E), ~150 km NE of the SESCAT observing region. During the summer of 1996, a portable ionosonde CADI (Canadian Advanced Digital Ionosonde) was operated in Milos.

In the experiments reported in the latest JGR, a relationship was found between patchy sporadic-E in the SESCAT observation area and spread F observed with the ionosonde. Note that what was compared was: 1)the occurrence of 50 MHz backscatter observed with SESCAT with 2)spread-F echoes between 2 and 10 MHz observed with ionosondes, and 3)patterns of airglow intensity variations.

The 50 MHz backscatter echoes presented had Doppler shifts between +150 Hz (approaching) and -400 Hz (receding). These are due to small scale (~meter) irregularities. The ionosonde records showed typical range spreading of ~100 km and are due to intermediate scale (1-50 km) ionospheric structures. The optical records showed structures ranging from 200-1000 km in size.

The authors argue that enhanced polarization fields set up inside sporadic-E patches can easily (at night) map up the magnetic field lines to the F-region and thus contribute to the formation of midlatitude spread F. "Mapping up the magnetic field lines" means that the F region effect will be equatorward of the unstable sporadic-E region source.

High velocities were observed with the Doppler radar (some more than 200 m/s). High local electric fields (some more than 10 mV/m, considerable higher than ambient) are required to explain these drifts. The coupling was described as follows: "the initiation and duration of backscatter does not usually coincide with that of spread F. The latter normally starts somewhat later but often persists longer, sometimes after sunrise, after which the F-region structures are washed out by photoionization." The authors don't indicate that small scale sporadic-E irregularities will be replicated in the F region, but they do write that VHF coherent scatter from the midlatitude F region is "very rare." In addition, they mention that there are times spread-F is present without sporadic-E.

I would like your assistance in finding out "how rare" this coming summer. Unfortunately few amateur 6m reports include accurate direction of arrival information or the extent of Doppler shift or spread. Signals are frequently strong enough that stations often don't even bother swinging their beams. Add to that the possibility of mixed sporadic-E and backscatter, and you've got a real problem in making sense out of the data.

The situation is much improved on 2m (and 222 MHz), where signals are weaker and antenna beams are narrower. I am thus calling for 2m and 222 MHz Es reports and especially reports of reception of back- and side-scatter signals during this coming summer's Es season. I wish to determine if any of these reports cannot be explained by scattering from the sporadic E-layer. Geometrical constraints will limit the height at which FAI can be observed. Stations in the southern half of the USA, Mexico, and the Caribbean have the highest chance of observing FAI from the F region. Keep in mind that the experimenters found that midlatitude FAI backscatter is strictly a nighttime phenomenon.

We already know that 2m Es backscatter is possible. Stations are doing it every summer. Now, how about 222 MHz? Are there enough motivated amateurs well-enough equipped to make up a 10 dB or so deficit compared to 144 MHz to make QSOs by this mode? Is there a JTxx processing mode for auroral-like signals, something that would show a waterfall spectral display?

Please include in your reports as much quantitative data as possible. This means: 1)times, 2)stations (locations), 3)beam direction, 4)honest signal reports, 5)estimate of spectral spread.

Oh, and you might just tune up to 50.52 MHz with your beam on Crete this summer!

Dec 03-Jan 04 DX Reports

The following reports of 50 MHz and higher DX propagation are courtesy of JA1VOK, W5UWB, XE2HWB, K6QXY, and postings on the Internet. Apologies to any sources I may have inadvertently neglected.

The first entry is *mmddhhii*, where *mm* is the month, *dd* is the day of the month, *hh* is the hour UTC, and *ii* is the minutes after the hour. The year is understood to be 2004. Symbols used include: V=Video Carrier, I=Inband video sidebands, F=FM audio, B=beacon, C=CW, J=JT44, P=PSK31, R=RTTY, S=SSB, W=mode not mentioned (or both CW & SSB), H=heard only. (BSc) = backscatter.

Reports of Africa

ASCENSION IS.

02102233	ZD8VHF	559	50.032	B	EA7KW
02172154	ZD8VHF	539	50.032	B	EA7KW
02182029	ZD8VHF	539	50.032	B	EA7KW
02182047	ZD8VHF	519	50.032	B	9H1YZ
02182238	ZD8VHF	>IM88WV	50.032	B	EH5AGR
02192126	ZD8VHF	559	50.032	B	EA7KW
02202220	ZD8VHF	559	50.032	B	EA7KW
02212121	ZD8VHF	559	50.032	B	EA7KW
02222051	ZD8VHF	559	50.032	B	EA7KW
02272059	ZD8VHF	559	50.032	B	EA7KW
02282248	ZD8VHF	559	50.032	B	EA7KW

EQUATORIAL GUINEA

02131436	3CVIDEO	S5 QSB	50.001	V	SV1DH
02141439	3CVIDEO	S6 QSB	50.001	V	SV1DH
02151402	3CVIDEO	S5 QSB	50.001	V	SV1DH
02161243	3CVIDEO	S7 QSB	50.001	V	SV1DH
02191320	3CVIDEO	S9+		V	SV1DH
02211740	3C-TV	S9++		V	EA7KW
02291455	3C VIDEO	S7		V	SV1DH

GABON

02021735	TR0A	519	50.048		EA7KW
02081520	TR0A	519	50.048		EA7KW
02141711	TR0A	WEAK	50.048		EA7KW
02211740	TR0A	559	50.048		EA7KW
02291626	TR8CA	55	50.110		9H1YZ
02291628	TR0A	579	50.048		EA7KW
02291630	TR8CA		50.110		IZ8DEO
02291631	TR8CA	519 CQ	50.111		SV1DH
02291634	TR8CA	53 CQ	50.110		F6FHP
02291641	TR8CA	CQ CW	50.110		EA5RM
02291648	TR8CA	CQ CQ	50.110		9H1YZ
02291654	TR8CA	S2 >JN53	50.115		IK5YJY

KENYA

02191320	5ZVIDEO	S5		V	SV1DH
02291455	5ZVIDEO	S7		V	SV1DH

MAURITANIA

02182116	5T5SN	CQ CW	50.110		DL8YHR
02201546	5T5SN	30W GP -2300	50.030	B	DL8YHR

MOROCCO

02162132	CN8MC	S7	50.027	B	PY1RO
02182222	CN8	LOUD	50.027	B	PY1RO
02292111	CN8MC	S3	50.027	B	PY1RO

SAO TOME

02291620	S9TX	53>JM75GU	50.110		9H1YZ
02291622	S9TX	59 CQ	50.110		EA7KW
02291623	S9TX	52	50.110		9H1TX

SOUTH AFRICA

02161152	ZS6WB	59 PEAK	50.110		5B4FL
02161155	ZS6AXT		50.110		5B4FL
02161233	ZS6TWB	519	50.044		SV1DH
02161237	ZS6TWB	51/2 QSB	50.044	B	IK0FTA
02161256	ZS6WB		50.110		5B4FL
02161304	ZS6WB	51 >JO45	50.110		OZ3K
02161459	ZS6NK	CW	50.111		5B4FL
02161637	ZS6NK	599+>JM75FV	50.110		9H1PA
02291206	ZS6NK	519 QSB>JN61	50.110		IK0FTA
02291215	ZS6NK	CQ 599	50.110		9H1TX
02291221	ZS6NK	559 CQ	50.110		9A1Z
02291223	ZS6TWB	559 KG46RD>JM19 .043		B	EA6VQ
02291225	ZS6NK	STRONG	50.110		EA6VQ
02291228	ZS6DN	529>JN61	50.050	B	IK0FTA
02291229	ZS6TWB	579	50.043	B	IK0FTA
02291230	ZS6NK	59	50.115		IK0FTA
02291234	ZS6WB	JT6M MAX -1DB	50.230		9A1Z
02291324	ZS6WB		50.120		9H1YZ
02291325	ZS6WB	57	50.120		9H1TX
02291329	ZS6AXT	55	50.110		9H1YZ
02291402	ZS6WB	53	50.130		5B8AV
02291423	ZS6NK	549	50.110		IT9PBR
02291428	ZS6TWB	529 KG46>JM75	50.044	B	9H1XT
02291455	ZS6TWB	519	50.044		SV1DH
02291517	ZS6WB	59+	50.130	S	5B8AV
02291723	ZS6NK	CW	50.111		5B4FL

Reports of Asia

CYPRUS

02291521	5B8AV	51 BSc	50.130		SV1DH

JAPAN

02082136	JE1BMJ	EME QSO	50.037		IW5DHN
02220003	JR5JTE/5		50.165		JA0EKI
02220616	JR2HCB	CQ CW	50.111		VK3SIX

MALAYSIA, WEST

02100940	9M2TO	>QM05	50.005	B	JA1VOK
02101004	9M2TO	519 QSB	50.005	B	JE2XBY
02150703	9M2TO	419	50.005	B	JE2XBY
02270805	9M2TO	>PM85	50.005	B	JR2HCB
02290518	9M2TO	>PM85	50.005	B	JR2HCB

TAIWAN

02111013	BY/AUDIO	QTF 320° Es	51.248		JG3LEB

Reports of Europe

AUSTRIA

02140924	OE5MPL	CQ JT6M	50.230		F4JVG
02192303	OE5MPL	JT6M	50.230	J	ON6AB
02201131	OE5MPL	QRZ JT6M	50.230		G4PCI
02210813	OE5MPL	CQ JT6M	50.230		F4JVG
02210954	OE3XLB	519 JN87>JO80	50.058	B	SP6MLK
02240951	OE3XLB	WEAK >JO80	50.058		SP6MLK
02241959	OE5UAL	JN68>JN54	50.152		I4JED
02271052	OE3XLB	519 JN87>JO80	50.058	B	SP6MLK
02290849	OE5MPL	W/OZ5AGJ JT6M	50.230		S57LM
02290856	OE5MPL	JT6M	50.230	J	OZ5AGJ
02290945	OE5MPL	JT6M	50.230		G4PCI
02291724	OE8RT		50.110		IK3ZAQ

AZORES

02232359	CU3URA	S5	50.013	B	PY1RO

BALEARIC IS.

02150910	EA6FB	CQ JT6M	50.230		F4JVG
02210805	EH6FB	2727	50.230		F4JVG

BELGIUM

02151635	ON6AB	CQ JT6M	50.230		F4JVG
02211644	ON6AB		50.230	J	LA1TV
02231046	ON4KST		50.230		PA2DB
02251856	ON0SIX	S7	50.041	B	PA2V

CAPRI

02211206	IC8/IZ8CKS	59>JN71	50.150		IK8DYD

CROATIA

02291330	9A1CMS	JN86FM	50.110		9A4K

CZECH REPUBLIC

02141524	OK1KRY		50.230	J	LA1TV
02150906	OK1KRY	JN69>IN88	50.230	J	F1NNI
02201653	OK1KRY	CQ JT6M	50.230		F4JVG
02210731	OK1KRY	CQ JT6M	50.230		LA1TV
02230917	OK1KRY		50.230		PA2DB
02280850	OK1KRY	2727 JT6M	50.230	J	F4JVG
02290840	OK1KRY	RANDOM JT6M	50.230	J	OZ5AGJ

DENMARK

02052034	OZ1DJJ	CQ JT6M	50.230		G4PCI
02102026	OZ1DJJ	CQ JT6M	50.230		G0CHE
02102042	OZ1DJJ	CQ JT6M	50.230		G4PCI
02111547	OZ6VHF	55A>JO49UQ	50.055	B	LA1TV
02111618	OZ6ABD	59A JO54>JO42	50.145		DG9BDI
02111634	OZ6ABA	57A>JO94 040°	50.145		SP2IQW
02111638	OZ6ABA	55A/59A JO57DJ .145			ON1DNF
02111643	OZ6ABA	55A>JO80IK	50.145	H	SP6MLK
02111702	OZ1SKY	54A/51A JO56DG .170			ON1DNF
02111750	OZ1KEF	CQA	50.155		SP2IQW
02111757	OZ4LP		50.100		LA5EKA
02141058	OZ7IGY	529	50.023	B	PA0O
02201543	OZ1DJJ	CQ JT6M	50.230		G4PCI
02210838	OZ5AGJ	2727 & 1017	50.230		F4JVG
02241812	OZ6ABA	57A	50.130		LA6PV
02242011	OZ4LP		50.138		SM6IQD
02242135	OZ8ZS		50.150	W	DL1EJA
02242148	OZ4LP		50.150	W	DL1EJA
02280840	OZ1DJJ	2727 JT6M	50.230	J	F4JVG
02290826	OZ5AGJ	CQ JT6M	50.230		F4JVG
02291005	OZ1DJJ	CQ JT6M	50.230		F4JVG

DODECANES IS

02111408	SV5SIX	200MW+DIPOL	50.016	B	SV5BYR

ENGLAND

02211227	G0JHC	2727 JT6M	50.224		F4JVG
02291037	G3UYM	CQ JT6M	50.230		G4PCI
02291601	G3UYM	CQ JT6M	50.230		F4JVG

ESTONIA

02111558	ES8DH	55A>JO49UQ	50.095		LA1TV
02111639	ES5AM	KO38>JO94 030°	50.134		SP2IQW

FINLAND

02111733	OH3XA	56A KP21GA	50.095		DK5AI
02111739	OH3XA	53A	50.095		G0CHE
02111805	OH3XA	52A	50.095		G4IGO
02111806	OH8QW		50.185		SP2IQW
02111838	OH3BHL	53A>KO03	50.096		SP4JWD
02112217	OH9SIX	539>JO80	50.067	B	SP6MLK
02142148	OH9SIX	57A KP36	50.067	B	SM2CEW
02241846	OH6YF	STRONG	50.169		LA1V
02241918	OH1JCS	CQ JT6M	50.230		G4PCI
02242105	OH3HL	SCATTER	50.135		OZ4LP
02242130	OH6YF		50.170		SM0TSC
02282115	OH9SIX	59A KP36	50.067	B	SM2CEW
02282116	OH3MF	57A	50.100		SM2CEW
02282134	OH6YF	CQ AURORA	50.090		OH6Y

FRANCE

02021740	F6FHP	519 BSc	50.110		EA7KW
02211301	F1GTU	JT6M 7SEC	50.230		OZ5AGJ
02220839	F4JVG	& 0905	50.230	W	S59F
02220905	F4JVG	CQ JN16	50.230		S59F
02221358	FX4SIX	51 QSB>JN66OA	50.315	B	IV3GBO
02291018	F4JVG	CQ JT6M	50.230		G4PCI
02291041	F5LNU	CQ JT6M	50.230		G4PCI
02291323	F1GTR	CQ JT6M	50.230		G4PCI

GREECE

02201904	SV2ASP/A	41	50.120		SV1DH
02291526	SV8UM	52>JM75GU	50.135		9H1YZ

IRELAND

02111743	EI7BMB		50.136		G4PCI

ISLE OF MANN

02142303	GD0TEP	IO74>JO99	50.230		SM0TSC

ITALY

02071648	IH6YF	CQ EME	50.210		OH6Y
02080949	IW4DQY		50.230	J	OE5MPL
02102218	IW3SNU	CQ JT6M	50.230		OZ1DJJ
02141220	II2PV	52>JN65	50.150		S57RR
02151027	IK2XDF	VOLTA MEM	50.150		S57RR
02191632	IK5RLP	52>JO80IK SHORT .167			SP6MLK
02191644	IK5RLP	55 BSc >JN54	50.167		IW4BET
02211303	IK2FIL		50.230		OZ5AGJ
02221406	I0VHL	51>JN65	50.150		S57RR
02221420	IV3GBO	QRZ 180°	50.150		S58U
02221540	IW5DHN	JN53>EL17 JT65B EME		J	W5UWB
02261342	I0JX	JN61HV	50.004	B	IK0YGJ
02262207	IW0CQG		50.170		IZ0FMA
02280921	IW4DQY	27 JN46>KP20	50.230	H	OH2AVP
02281130	IK2FIL	JT6M WEAK	50.230		G4PCI
02291618	IH9		50.110	H	S9TX
02291633	I0JX		50.110		S9TX
02291936	IH9YMC		50.110		IH9GPI

JAN MAYEN

02062152	JX7SIX	LOUD	50.079	B	OH6Y
02062313	JX7SIX	579 QSB	50.079	B	SM5LE

LUXEMBOURG

02141043	LX0SIX	429 TR>JO50 410KM		B	DK2EA
02191031	LX0SIX	419>JO50 TR	50.023	B	DK2EA
02191134	LX0SIX	519 QSB	50.023	B	DG9BDI

MALTA

02291438	9H1XT	>JN86FJ	50.110	H	9A4K

NORTHERN IRELAND

02111804	GI0BFD	55A	50.150		G4PCI

NORWAY

02051957	LA1TV	CQ JT6M	50.230		G4PCI
02061809	LA1TV	CQ JT6M	50.230		G4PCI
02101857	LA1TV	CQ JT6M	50.230		G4PCI
02111718	LA8BCA	55A JP41>IO91	50.083		G4RGK
02111854	LA7VH	41A JO59>JO31	50.098		DL1EJA
02112118	LA1TV	CQ JT6M	50.230		G4PCI
02121615	LA8AV	55A	50.100		OZ1DJJ
02131830	LA1TV	CQ JT6M	50.230		G4PCI
02150913	LA1TV	CQ JT6M >IN88	50.230		F1NNI
02151520	LA1TV	CQ JT6M	50.230		G4PCI
02171724	LA1TV	CQ JT6M	50.230		G4PCI
02182016	LA1TV	CQ JT6M	50.230		G4PCI
02192019	LA1TV	CQ JT6M	50.230		G4PCI
02221340	LA1TV	CQ JT6M	50.230		G4PCI
02241849	LA8AV	55A >0	50.180		PA0O
02241917	LA1V	51A CQ	50.140		PA0O
02241934	LA8WF	51A	50.170		PA0O
02280812	LA1TV	CQ JT6M 1ST	50.230		F4JVG
02281950	LB1HF	CQ JT6M	50.230		G4PCI
02290857	LA1TV	CQ JT6M	50.230		F4JVG
02290901	LA6TV	CQ	50.230		OE5MPL
02290944	LA8AV	CQ JT6M	50.230		G4PCI

POLAND

02151658	SP6GWB	CQ JT6M	50.230		G4PCI
02211541	SP6MLK	41/51 >JO82KL	50.190		SP6NVN

SARDINIA

02221719	IS0XRB		50.150		IS0SWW

SCOTLAND

02071242	GM4WJA	CQ JT6M	50.230		G4PCI
02092139	MM5AJW	IO88>JO99	50.230		SM0TSC
02111549	GB3LER	55A>JO49UQ	50.064	B	LA1TV
02111606	GM3UA	55A>JO49UQ	50.100		LA1TV
02111726	GM4WJA	55A CQ	50.130		G4PCI
02111756	GM7PBB	55A>IO90	50.142		G0CHE
02121614	GB3LER	55A	50.064	B	MM0BSM
02131502	GM6VXB	MS QSO	50.230	J	OZ1DJJ
02141108	GM4WJA	CQ JT6M	50.230		F4JVG
02150924	GM6WXB	IO97>IN88	50.230	J	F1NNI
02151127	GB3LER	519 JN16	50.063	B	F4JVG
02171951	MM5AJW	CQ JT6M	50.230		G4PCI
02191716	GM6VXB	CQ JT6M	50.230		G4PCI
02201649	MM5AJW		50.230	J	G0CHE
02210928	GM6VXB	CQ JT6M	50.230		F4JVG
02210944	GM6VXB	2727	50.230		F4JVG
02211236	GM6VXB	JT6M	50.230		F4JVG
02281924	MM5AJW	CQ JT6M	50.230		G4PCI
02290929	GM4WJA	CQ JT6M	50.230		DG5AAG
02291637	GM4WJA	2626 JT6M	50.230	J	F4JVG
02291707	GM4WJA		50.230	J	ON6AB
02291914	MM5AJW	JT6M CQ	50.230		G4PCI

SERBIA

02192226	YU7XL	JT6M >JN95	50.230		OZ1DJJ
02231015	YU8XL	BIG BURST	50.230		PA2DB

SICILY

02241711	IT9YAF	CQ	50.110		9H1PI

SLOVENIA

02071155 S59F CQ JT6M >IN88 50.230 F1NNI
02080930 S51DI 46/27 IVAN 50.230 J OE5MPL
02140858 S57RR 57 A ROMA 50.150 IK0BAL
02140901 S57RR 55 QSB >JN54 50.150 IW4BET
02141730 S59F CQ JT6M 50.230 G4PCI
02150912 S57RR 59 JN65>JN86FJ 50.150 9A4K
02221338 S57RR 57>JN35 50.150 H IK1EGC
02241807 S57RR CQ IAC 50.160 IW0GPN
02241826 S57RR JN65TM>JN53OQ 50.160 IZ5EKV
02242044 S57RR CQ IAC 50.165 IZ5EME
02242103 S57RR 599 JN65>JN45 50.165 IZ2FOB
02242116 S57RR CQ IAC 50.165 IW2LC
02242149 S57RR 339 JO78FM 50.150 SM6CTQ
02242202 S57RR 519>JO99 50.165 H SM0TSC
02242204 S57RR 559>JO55 50.165 H OZ8ZS

SVALBARD

02121954 JW5RIA 50.120 OH5LK
02121956 JW5RIA STRONG 50.120 SM3XRJ
02122017 JW5RIA 55 50.120 H LA6PV
02122038 JW5RIA 559>JO49UQ 50.121 LA1TV

SWEDEN

02081846 SM0TSC CQ JT6M 50.230 G4PCI
02111532 SM5LE 59A>JO49UQ 50.130 LA1TV
02111645 SM4/OZ1BNN 57A JP61 30*.140 SP2IQW
02111651 SM7RYO 55A/57A >JO76DB .175 ON1DNF
02111706 SM4/OZ1BNN CQ AURORA 50.140 SP2BDR
02111711 SM0TSC CQ AURORA 50.147 SP2BDR
02111712 SM5BMB 55A IO91>JO99 50.103 G3NVO
02111724 SM7FJE 57A IO91 50.099 G4RGK
02111748 SM7RYO JO76>JO99 50.175 SM0TSC
02111751 SM7AED 55A JO65>JN59 50.090 DL9NDC
02111753 SM7AED 53A>JO59 50.090 LA5EKA
02111758 SM7RYO 55A JO76>JO94 20* SP2IQW
02152023 SM7XON JT6M 50.230 J G4PCI
02221418 SM6NZV JT6M 50.227 J G4PCI
02241956 SK7MP NAC 50.147 OZ4LP
02242016 SM6C CQ 50.150 OZ4LP
02242028 SM0V 50.150 SM3SGP
02242114 SM0BSO 50.175 SM3SGP
02242142 SM6CTQ 539>JN65 50.150 S57RR

SWITZERLAND

02031758 HB9CXZ 50.110 HB9OAB
02112059 HB9SIX 422 JN47YG>JN37PR B F4BIT
02121350 HB9BYZ 50.125 KG4QMI
02141035 HB9SIX 429 JN47>JO50 TR.058 B DK2EA
02171616 HB9SIX 529 TR JN47QG>JO50UF B DK2EA

UKRAINE

02070749 UT5G 579 KN66LS 50.084 SM5CEU
02070832 UR5QDM 559-579 KN77 50.110 OZ1DJJ
02070842 UT5G 559 50.084 B OZ1DJJ
02070852 UU5SIX 539 50.080 B OZ1DJJ
02091232 UT5G 559 Es 50.084 B G4FUF

Reports of North America

BAHAMAS

02040015 C6ANM BAHAMAS CQ 50.130 NE1B
02040020 C6AFP 599 FL16 -0318 50.063 B K7BV/1
02040038 C6AFP 559 50.063 B K1GUN
02040335 C6ANM CQ 50.125 NE1B
02040349 C6AGN FL16>EN52 50.122 K9RO
02040351 C6AGN 58 BILL 50.122 N9NS
02120342 C6APX VY WEAK FL15 50.125 NW5E
02150035 C6AFP 439 50.063 B N3DB
02151611 C6AFP >EM02 50.062 B AE5B

BERMUDA

02032200 VP9DUB 599 FM18 50.026 B N3DB
02072355 VP9GE 57 50.110 AE5B
02141953 VP9GE CQ 50.121 W4GF
02142249 VP9DUB 579 FM18 50.026 B N3DB
02142347 VP9DUB 59>FM19 50.026 B AK3E
02151608 VP9GE 44 50.121 NW5E
02171907 VP9DUB >FN65 50.025 B VE1RG

CANADA

02080404 VE4VHF EN19 50.036 B AE5B
02080435 VA5HAM CW DN89 50.125 AE5B
02082054 VE1YX FN74>EN82 50.130 K8KS
02121232 VE1YX 599 BEAMING C6 50.125 NW5E
02121319 VE1YX 50.125 W4TO
02121355 VE1YX FN74>FM04 50.125 KB4FQ
02121438 VE2TH CQ DX 50.110 KB4XK
02121605 VE2TH 50.140 K4KJZ
02121618 VE2TH FN46>EM95 MIKE 50.140 K8YC
02121620 VE1YX FN54>EM93 50.127 K3IXD
02121708 VE1YX FN74 50.157 AB4GG
02121714 VE2GWL FN46 50.138 AB4GG
02150413 VE4ARM 51A EN09>EN44 50.018 B K9MU
02161836 VE7FG CO83>DN70 50.033 B K0GU
02162355 VA3NR 50.125 AB4GG
02170113 VE2HOG 50.130 K4UTE
02251532 VE3GMS 57.000 WP4NIX

COSTA RICA

02072351 TI5KD CARLOS 50.130 AK3E

DOMINICA

02160104 J73CCM CQ 50.107 PY2SP

GRENADA

02122351 J39JQ 57 50.110 PY1RO

GUADELOUPE

02160108 FG5GP 50.110 PY3OG

JAMAICA

02292308 6Y5IC 50.110 PY3OG

MARTINIQUE

02190049 FM5WD 50.110 PY5KD
02190055 FM5WD CQ DX 50.110 PU2WDX
02232347 FM5WD CQ DX 50.110 PP5NW

MEXICO

01190057 XE2ED, XE2HWB >CM88 B K6QXY
01190437 XE2TH 59/59 DM40>CM88 BEN S K6QXY
01210339 XE2ED >CM88 B K6QXY
01262XXX XE2ED, XE2TH >CM88 B K6QXY
01270330 XE2ED >CM88 K6QXY
02022304 XE2TZP TERE>DM30 50.125 K0HA
02022338 XE2TZP 59 DM30 50.130 K0HA
02030011 XE2YW 50.110 K0HA
02030104 XE2YW 59 DL82>EM12 50.110 WQ5W
02030129 XE2YW 50.110 K5IX
02030130 XE2SNG DM30>EL29 50.120 K5IX
02030137 XE2TH 50.155 K5IX
02030159 XE2NBE 50.110 K5IX
02030201 XE2ED DM10 50.027 B WQ5W
02030209 XE1KK EK09>DN70 50.023 B K0GU
02030215 XE2TH DM30 50.160 K0HA
02030218 XE2NBE EL05>EM17 50.110 N0JK
02030228 XE1AY DK79>EM12 >0328 .125 WQ5W
02030304 XE1AY DK79 ON CW 50.107 K5AEM
02040105 XE2TH DM30>DL44 S XE2HWB
02040113 XE2TZP DM30>DL44 S XE2HWB
02040115 XE2TH/m DM30>DL44 S XE2HWB
02040235 XE2ED >DL44 B XE2HWB
02040320 XE2ED DM10>DN70 50.028 B K0GU
02040324 XE2ED DM12 WKG 4s 50.125 N0JK
02040330 XE2EO,XE2HWB DL44>CM88 B K6QXY
02040337 XE1AY 55/57 DK79>CM88 S K6QXY
02040351 XE2UAS 55/57 DM41>CM88 S K6QXY
02040405 XE2VAS >CM99 50.125 KI6CG
02072251 XF1K DL47>EM12 50.125 KY5N
02072314 XE1JP 59 EK09 50.125 K4RX
02072317 XF1K DL47 50.120 AE5B
02072331 XF1K DL47>EM10 50.110 AB5K
02080002 XE1MEX EK08 50.115 AK3E
02080008 XE1MEX FN20>EK08 50.115 K3AX
02080012 XE1MEX 59 EK08 50.115 K4RX
02080015 XE1KK 549 FM18 50.023 B N3DB
02080022 XE1MEX EK08 50.115 N3DB
02080131 XE1MEX 50.115 WQ5W
02080146 XE1MEX 52>EN70 50.115 AJ9C
02112008 XE1KK 50.023 B W7RV
02132341 XE1KK EK09>EL98 50.023 B W4VQ
02140010 XE1KK 599 50.023 B W4SO
02140406 XE2HWB DL44 50.008 B AE5B
02142149 XE2ED 599 DM10>EM02 50.028 B AE5B
02150212 XE2SNG DM30 50.125 AE5B
02151919 XE3PNH FERNANDO EL61 50.125 W5ZL
02151924 XE3PNH CANCUN >EM12 50.125 WQ5W

PUERTO RICO

02070120 KP4BI MANUEL 54.043 AF4Y
02102356 WP4F S1 50.072 B PY1RO
02160111 WP3HV STRONG 50.110 PY3OG
02192358 WP4FRK 59 50.120 WP4NEG
02202346 WP4NEG 57>GF38 50.110 PY3OG
02232352 WP4NEG 59 + 50.110 PP5NW
02260025 WP4NEG 59 50.110 PY1NB
02292247 NP4P 59 ROBERTO 50.110 PY3OG

ST BARTHELEMY

02110020 FJ5DX VY STRONG 50.120 PY5ZHP
02160051 FJ5DX CQ DX 50.110 PP5NW
02180000 FJ5DX W/ FG5FR 50.120 PP5JD
02240020 FJ5DX CQ 58 50.130 PY2NW
02292257 FJ5DX CQ CQ 50.115 PY3OG

ST KITTS & NEVIS IS.

02291846 V44KAI 50.055 B 5T5SN

ST LUCIA

02160034 J6/WA1T VY STRONG 50.110 PP5NW
02160057 J6/WA1T SSB LOUD 50.110 PY2SP
02160103 J68AR 50.105 PY2SP
02180005 J6/WA1T #129 50.110 W PY1RO
02190240 J69EN 53 FK94>GG52 50.110 PP5JD

ST MARTIN

02190252 FS/W3ARS 50.110 K3LP
02231812 FS/N8II 50.125 K3LP

TURKS & CAICOS

02260046 VP5/K7BV CW FL31 50.110 NW5E
02260050 VP5/K7BV CW 50.110 W4SO
02261529 VP5FKU CW >EM60 50.110 KB4ET
02261540 VP5/K7BV CW >EM60 50.110 KB4ET
02261541 VP5/K7BV DENNIS 50.110 W3UR
02261600 VP5/K7BV CW CQ 50.110 KB4ET
02261603 VP5/K7BV CQ 50.110 W4GF
02261855 VP5/K7BV 549 FL31 50.110 NW5E
02270142 VP5/K7BV 559 FL31 W/QSB NW5E
02270244 VP5/K7BV CQ CW >EM60 50.110 KB4ET
02271529 VP5/K7BV S3>EL96 50.110 N4GM
02271943 VP5/K7BV 22 >EL88SD 50.106 W4HY
02281403 VP5/K7BV 559 Sc 50.110 K4RX
02281425 VP5/K7BV 33 Sc 50.110 W4HY
02281429 VP5/K7BV 559 MS>EL98 50.110 NW5E
02281451 VP5/K7BV 559 EM70 50.110 K4RX
02282218 VP5/K7BV FL31 CW Sc 50.110 NW5E
02291607 VP5/K7BV 50.110 W4DTA
02291608 VP5/K7BV 559 >1922 MS .110 K4RX
02291946 VP5/K7BV 559 MS PINGS .110 W4SO
02292005 VP5/K7BV FL31 CW CQ 50.110 NW5E
02292242 VP5/K7BV 59 DENNIS 50.110 PY3OG
02292346 VP5/K7BV 559 CQ DX 50.106 K4RX
03010003 VP5/K7BV 579 50.106 PY1RO

United States, W1

02070408 KB1ZQ 59>FLA 50.135 W4GDC
02121320 K1DAT FM16>EN42 50.135 KG4QMI
02121703 KB1JRI FN34 50.143 AB4GG
02122023 WA1NYV FN42 50.130 KD4K
02122027 N1FOJ EM74>FN43 50.137 KD4K
02151517 W1JJ 449 MS 50.125 NW5E
02162238 WA1NYV FN42>EN61 50.125 K9DXR
02162244 WA1NYV S5 FN42>EN61 50.130 K9DXR
02162326 WA1NYV FN42 WKG W9s 50.125 K1TTT
02162331 WA1NYV WEAK FN42>EN52 .130 W9RM
02162353 N1NNS >EN52 50.125 W9RM
02181740 W1ALS 56 BSc FN55>FN65 .125 VE9KAR
02242320 N1RAM 55 FM18 50.125 N3DB

United States, W2

02071600 K2DRH 59 WSJT EN41 50.243 K7BV/1
02072337 K2DRH EN41>EL99 50.175 WI1S
02121530 W2/KJKYR 55 WKG 4s 50.145 N3DB
02121616 W2/KJKYR FN24>EM95 50.145 K8YC
02121645 K2ERG FN13>EM93 50.137 K3IXD
02121658 WN2R 50.135 N8ERV
02121659 KB2EB FN32>EM66 50.101 WN4M
02121712 WB2AMU FN30>EM93 50.128 K3IXD
02121725 WB2MRX FN32 50.159 AB4GG
02121803 KC2BMI FN13 50.125 K4KJZ
02162333 W2/KJKYR FN24 50.135 K4KJZ
02162358 N2NB CQ>EN52 50.139 W9RM
02170038 N2NRD FM29>EN10 50.130 K0HA

United States, W3

02040055 KB3HJA FN20 50.125 K5IX
02040157 W3MEL EM32>FN10 50.155 N0EYE
02040426 W3CMP FN10>FN42 50.125 K1SG
02040527 N3DB FM18 CW 50.125 K0HA
02051800 W3VD FM19>EN10 50.064 B K0HA
02051804 W3/KL7GLK FM18>EN10 50.076 B K0HA
02071507 W3CMP FM10>EN52 50.125 W9RM
02080129 N3DB 579 FM18>EM17 50.125 N0JK
02100223 W3UUM FM16>EL29 50.130 KG4QMI
02121647 K3TKJ FM28 DE AL 50.130 VE3SUB
02122106 K3TKJ FM28>EN10 50.155 K0HA
02151726 N3DB 569 Sc 50.125 NW5E
02170040 K3EOD FM29 50.150 K0HA
02170050 N3DB FM18 50.150 K0MN
02170103 WA3WUL FM29>EN10 50.165 K0HA
02170211 N3DB FM18>EM69 50.150 NM9P
02292248 W3/KL7GLK S8 FM18 50.075 B N2EA

United States, W4

02020037 W4/W2VDI 50.129 KB8TGH
02020052 N4GM EL96 50.150 KB8TGH
02020055 KG4RWO EL96 50.130 KB8TGH
02032147 W4CHA 579 FM18 50.080 N3DB
02032152 K4AHO 599 50.078 B N3DB
02032216 W4CHA EL88>FN31NL 50.080 B WY1U
02032228 KG4YQE FN31>EL88 50.125 WY1U
02032238 WA4DOS 50.130 N1NK
02032315 W4CHA 589 EL88 50.079 B K7BV
02032319 NY4PD 59 EL96 50.136 K7BV
02032330 W4/W2VDI CQ CW 50.099 K7BV/1
02032345 KG4RWO EL96>FN32 50.150 K1TTT
02032356 W4/N3II 59 FM18 50.140 N3DB
02040034 K4UTE FM16>EM90 50.160 KG4QMI
02040039 W4GDC FM16 >EM90 50.160 KG4QMI
02040042 KE4KVW 50.165 AK2P
02040045 W4IVW FM16>EL97 50.160 KG4QMI
02040048 W4SO 59+ EL96>EN82 50.132 K8KS
02040050 KE4KVW EN63>EM80 50.165 NK9O
02040100 W4IVW WKG A 3 SSB 50.110 K7BV/1
02040109 W4SO 59 EL96 50.133 K7BV/1
02040132 N4TSS EM94>EN63 50.129 NK9O
02040144 W4VC FM16>EM81 50.140 KG4QMI
02040158 K4SUS EL95 50.147 N3TDE
02040213 W4HY EL88 50.163 N3TDE
02040229 K4QI FN10>EM60 50.130 KG4EFR
02040236 KG4HOT 50.170 KG4EFR
02040240 W4HY 50.164 KI9R
02040242 N4GM EL96>FNOO 50.099 K3HX
02040243 K4QI 59 FM06>EM17 50.130 N0JK
02040247 W4CHA EL88>FN00 50.080 B K3HX
02040248 KK4AR EM74>DN70 50.096 K0GU
02040249 KG4RWO VY LOUD EL96>FN00 K3HX
02040251 K4UTE EM90>FN00 50.177 K3HX
02040257 KE4KVW EM80>FN00 50.200 K3HX
02040258 KK4AR 559 EM74>EM17 50.096 N0JK
02040307 WS4Y EM60>FN00 CW 50.095 K3HX
02040309 N4ION EN63>EM82 50.134 NK9O
02040315 K4GRD EL87>FN00 50.093 K3HX
02040321 KU4WD EM80>FN00 50.155 K3HX
02040322 W4CIA EN63>EM40 50.139 NK9O
02040327 N4FNG EL87>FN00 50.103 K3HX
02040338 W4WM LOUD EM66>EM17 50.135 N0JK
02040352 N4ION WKG N0LL EM09 50.155 N0JK
02040404 WB4ABW EM85>EM17 50.130 N0JK
02070132 N4FNG EL87 50.095 K0HA
02070225 N4JDB S9 EM64>EM10 50.130 K5AB
02080023 W4/WB2QLP EL96>EN10 50.100 K0HA
02080039 W4GF EM83>EN43 MN 50.125 K0MN
02080336 W4UDH EM52 50.125 K0HA
02081503 K4KWK EM75 CW CQ 50.099 K0HA
02092344 K4RX >EN52 QSB 50.125 N9UM
02100000 K4QI CW CQ 50.125 K0HA
02100026 K4JJZ EN63>EM72 50.135 NK9O
02100221 WB4KTF FM16>EL29 50.130 KG4QMI
02101458 KG4QMI 55 FM16>EM10 TX .125 W5GAI

02101708 KB4ET RTTY 50.130 R K4JAF
02101717 AA4DF 599 EM70 50.125 N3DB
02101742 W4CHA 559 EL88>EM17 50.079 B N0JK
02101820 N4FNG CQ 50.110 W1JJ
02121312 K4AHO 559>FN42HE 50.076 B K1DAT
02121405 KE4SIX 549 EM83>FN42HE .063 B K1DAT
02121407 W4CHA 569 EL88>FN42HE .079 B K1DAT
02121428 K4AHO 569 EL98>FN42 50.076 B K1DAT
02121439 KA4D TN>FN42 50.130 K1DAT
02121545 KC4OR EM74>FN74 50.144 VE1YX
02121643 KD4NVM FM27 WALLOPS IS .125 VE3SUB
02121722 K4AL EM66>FN42 50.145 N1JFU
02121731 KG4QMI FM16>EN82 50.125 VE3SUB
02121827 KB4ET 55 EM60>FN42HE 50.133 K1DAT
02122044 W4/N8CJK 57 EL98>EN80 .125 N4DB
02142246 K4AHO 549 EL98 50.076 B W1JJ
02142346 W4WRL FM04>FN65 50.137 VE9KAR
02142350 KE4KVW EM80>FN65 50.125 VE9KAR
02150047 W4SO 559 EL96>FN65 50.130 VE9KAR
02151543 W4/N8CJK ORLANDO FL 50.125 K8KS
02151546 W4/N8CJK 559 50.125 K4RX
02151629 KG4RWE EL96 50.125 AE5B
02151636 KD4FLP EM95>EM12 50.130 WQ5W
02162332 K4JZ 50.130 K1TTT
02162350 K4PTN EM56>FN32 50.140 K1TTT
02170006 KE4IKM 50.130 WA1ZYX
02170105 K4TQR 579 EM63>DN70 50.060 B K0GU
02170116 N4NX FM15>EM73 50.134 VE3IEM
02170224 K4TQR EM63>DN70 50.060 B K0GU
02221604 W4/WB2QLP 50.125 K5IX
02230119 W4NP EM96>EM79 50.125 WZ8D
02250126 N4OYT EM92 50.125 NW5E
02250136 W4JKG VY WEAK EM91 50.125 NW5E
02250231 W4EJG FM05>EN43 50.125 K0MN
02270300 WA4BUT EM50>EM40 50.125 N5UXT

United States, W5

01102055 W5s TX >CM88 K6QXY
01190057 W5s TX,OK >CM88 K6QXY
01190438+W5s NM >CM88 K6QXY
01190438+W5SIX >CM88 B K6QXY
01262XXX W5s NM >CM88 K6QXY
01270230 W5s TX,NM >CM88 K6QXY
02021758 AD5IZ EM46 50.125 K1SG
02022326 KD5VNV EL18 50.125 K0HA
02030016 KK5ID 50.135 K7SP
02030156 W5WVO DM65 50.125 W5DN
02030450 W5SSG 50.125 KI5YH
02030452 KK5LE EM31 LOUISIANA 50.125 W5DN
02040208 W5VAS 589 EM40 50.060 B K7BV
02040223 W5EUQ EL88 50.132 N3TDE
02040245 W5CIA 59 EM40 50.140 K7BV/1
02040246 WA5LFD EM12>FN00 CW 50.093 K3HX
02040316 N5VGS FM16>EM22 50.170 KG4QMI
02040329 W5EUQ EL88>FN00 50.130 K3HX
02040340 KD5RPH 50.130 N6HY
02040343 WQ5W EM12 50.135 KG4UAV
02040344 W5JLC 50.135 N6HY
02040412 N5XYO DM90>EN82 SONORA .160 K8KS
02040419 KD5YCY EM02 50.160 AE5B
02042009 W5VAS EM40>EN10 50.060 B K0HA
02070104 W5VAS 419 50.060 B N3DB
02070154 W5VHF 599 EM25>EL98JH .125 NN4X
02070242 W5OZI 59 50.130 K4RX
02070400 WQ5V 59 >FLA 50.130 W4GDC
02072313 KK5LE 50.125 N3DB
02072330 W5HN EM13>DN70 50.070 B K0GU
02080304 K5VIP EL98 50.125 K0HA
02080432 N5VGS EM22 50.125 K0HA
02080456 W5WVO DM65>EN10 50.125 K0HA
02080458 W5WVO DM65>EN35 50.125 K0EKL
02090151 WB5NRI EM22 50.125 K5IX
02092325 K5CM 539 EM25>FM29 50.125 H W5KI
02100059 KB5AAB 50.125 KB0FHP
02100216 W5VAS 579 50.060 B N3DB
02100228 KC5JYW FM16>EL29 50.130 KG4QMI
02100234 W5AOV FM16>EL19 50.130 KG4QMI
02100241 NW5E EL98>EM17 50.125 N0JK
02101450 W5GTA FM16>EM20 50.125 KG4QMI
02101500 W5GAI FM16>EM10 50.125 KG4QMI
02101508 WB5NRI FM16>EM22 50.130 KG4QMI
02101512 W5AOV FM16>EL19 50.130 KG4QMI
02101531 W5HN 599 FM18 50.070 B N3DB
02101536 KA5TJI FM16>EM20 50.130 KG4QMI
02101541 KA5ROW FM16>EM25 50.130 KG4QMI
02101632 W5VAS 569 50.060 B N3DB
02121508 KD5HLG 579 EL73>FN42HE .075 B K1DAT
02121745 K5BZM FM16>EM18 50.140 KG4QMI
02122120 N5FJ EM32 50.129 W3MEL
02140400 NW5E EL98>EN82 50.125 K8KS
02151527 NW5E MS PINGS 50.125 K8KS
02151638 KC5NOA EL08 50.125 NW5E
02151640 N5FJ EM32>EL96 50.140 WB2TQE
02151704 KK5LE 59 N EM32 50.140 N5FJ
02151745 W5/K0CJ 50.125 WB2TQE/4
02151810 W5/K0CJ 55 EL16 50.125 NW5E
02152255 NW5E CQ DX 50.111 K4RX
02170233 AE5B EM02>EN10 50.125 K0HA
02200124 KD5HOV EL17 50.125 K4KJZ
02221543 W5UWB EME 50.203 IW5DHN
02231712 W5LUA EME 50.203 IW5DHN
02240004 N5KNU EM04>EM15 VY SHORT W5SSG
02260006 NW5E 559 50.110 K7BV/1
02281436 W5DN CLG VP5/K7BV 50.111 K5AB
02281458 W5OZI CQ DX 50.111 K5AB
02281515 K5AB 579 50.106 W5DN
02291554 K5AB CW 50.110 W5DN

United States, W6

01190438+W6s S.CA DM04,13,14 SHORT K6QXY
01210111+K6ODV BSc 230° >CM88 K6QXY
01262XXX W6s S.CA. >CM88 K6QXY
02030134 WA6DKN DM04 50.125 K5IX
02040240 KG6JAI >DL44 B XE2HWB
02040325 K6NHK >DL44 H XE2HWB
02040327 K6KMN DM04>DL44 S XE2HWB
02040348 N6SIX DM12>FM06 50.137 KG4UAV
02040425 K6LGL DM04>DL44 S XE2HWB
02040427 WA6TFZ DM15>DL44 S XE2HWB
02040428 W6KBX CM98>DL44 S XE2HWB
02040430 AC6QD DM14>DL44 S XE2HWB
02061949 W6NP 50.400 N6DKP
02070200 W6ZI 59+ 50.132 KG4EFR
02100044 W6ZI CQ 50.143 AK3E
02142051 WA6TFZ DM15 50.125 K5IX
02142117 KG6DHQ S9 DM04>EM10 50.137 K5AB
02142131 KG6JAI BURBANK >EM10 50.070 B K5AB
02150104 WA6TFZ DM15>EM02 50.130 AE5B
02150106 KG6DHQ DM04>EM12 50.140 WQ5W
02161841 K6FV 599+ CM87>DO33 50.069 B VA6SZ
02190347 K6GXO DM04>EN10 50.125 K0HA

United States, W7

01031900 W7s NV,AZ MS QUADR. >CM88 K6QXY
01110350 W7s AZ >CM88 K6QXY
01190438+W7s AZ >CM88 K6QXY
01220300 W7s AZ >CM88 K6QXY
01262XXX W7s AZ >CM88 K6QXY
02020347 K7TOP VY WEAK DM43>EM12 WQ5W
02030114 K7SP DM33>EM17 50.135 H N0JK
02030149 W7/WB4LDS/M 59 DM42>EM20 W5DN
02030155 N7WB DM44 50.210 W5DN
02040314 WA7X >DL44 B XE2HWB
02060340 K7AYP CN85>DM12 50.125 N7CW
02060400 WA7X, W7s AZ >CM88 B K6QXY
02060440 KA7BGR DM12>CN82 50.074 B N6CW
02070759 W7GJ EME CLG 5T5SN 50.190 F6FHP
02080234 NW7O DN26>EN10 50.130 K0HA
02080258 W7YM 59 DN57>EM17 50.125 N0JK
02080310 K7HLN DN36>EM17 50.145 N0JK
02080321 KB7RUQ DN31>EN10 50.125 K0HA
02080338 N7IJ DN44 W/ KC0HFL 50.125 H N0JK
02141803 KD7UWF DM26>EN10 50.125 K0HA
02141838 K7JE DM33>EN10 50.125 K0HA
02141902 KD7UWF DM26>EM45 50.125 W5ZN
02141931 WA7X DM49>EM02 50.070 B AE5B
02142045 WA7JTM/P DM43 QRP 2.5 W.125 AE5B
02142112 W7JLC/M DM34 50.125 K5IX
02142124 WA7JTM DM43 50.125 AA5XE
02161853 N7IJ DN44>EN10 50.125 K0HA

United States, W8

02030034 KC8CC DM33 50.125 K5IX
02030043 KC8CC 50.150 W5RMH
02040049 N8II WV 50.125 K5IX
02040149 K8EB MICHIGAN 50.125 W5DN
02040209 KC8QDQ EM89 CQ, CQ 50.200 N0JK
02072353 K8PLF EN81>DN70 50.074 B K0GU
02080026 N8UUP EN82>DN70 50.125 K0GU
02080033 N8PUM S9 EN65>DN70 50.068 B K0GU
02080142 WA8RJF EN91>EM17 50.125 N0JK
02121715 AB8NG FM16>EN72 50.125 KG4QMI
02121735 WA8FTA FM16>EN52 50.140 KG4QMI
02121750 KC8FWP FM16>EN73 50.140 KG4QMI
02121756 K8ZES FM16>FN02 50.140 KG4QMI
02121843 WD8PTB FM16>EN80 50.140 KG4QMI
02121919 WA8ISC EM72>EM93 50.128 K3IXD
02122124 N8UUP 50.125 H K4KJZ
02150113 WB8VLC DM34>EM12 50.140 WQ5W
02161822 N8PUM 599 EN65>DN70 50.067 B K0GU
02170030 W8DN EN70>FM29 50.135 N2NRD
02180023 K8ZE EN82>EN61 50.125 K9DXR
02180026 KC8NYY EN82>EN61 50.125 K9DXR
02281448 N8CJK 339 MS 50.125 NW5E
02281824 KB8U EN71 50.125 NW5E

United States, W9

02040032 K9VNM FM16>EL89 50.160 KG4QMI
02042026 W9/VE3CDP 50.125 K5IX
02072245 WD9EMF 599 EM57>DN70 50.100 K0GU
02072358 K9YC 59 EN52>DN70 50.125 K0GU
02080011 KA9CFD 50.135 K4KJZ
02080049 K9MU EN44>DN70 50.061 B K0GU
02100034 NK9O 50.135 K4KJZ
02100113 WB9QFW 559>EL98 JUSTIN .099 NW5E
02121720 W9/VE3CDP DON >FM29 50.125 N3TR
02121739 W9JUV EN62>FM16 50.140 KG4QMI
02121742 N9SVE FM16>EN63 50.140 KG4QMI
02121753 KC9CTV FM16>EN61 50.140 KG4QMI
02121758 KC9BGK FM16>EN61 50.140 KG4QMI
02121805 W9VA EN62>FM16 50.140 KG4QMI
02122029 N9BJJ FM16>EM58 50.125 KG4QMI
02122037 W9/VE3CDP EM58>FM16 50.135 KG4QMI
02122156 WD9EMF 599 FM18 50.100 N3DB
02150308 K9MK 50.125 AJ4F
02161829 K9MU WEAK EN44>DN70 50.061 B K0GU
02161845 K9BZ EN44>DN70 50.125 K0GU
02161852 WB9WHQ EN45>DN70 50.125 K0GU
02161906 W9RM 529 EN52>DN70 50.125 K0GU
02162236 WR9L EN61 50.076 W1JJ
02162241 WR9L EN61>FN31 50.076 B K7BV
02162348 WD9EMF EM57>FN32 50.130 K1TTT
02170058 KI9A EM58>FN42 50.131 N1JFU
02170059 KI9A EM58 50.131 K2QPN
02170201 KA9PCU EM40>FM18 50.140 KA6AKH
02170217 K9DLI EN42>FM18 50.140 KA6AKH

United States, W0

01031900 W0s CO MS QUADR. >CM88 K6QXY
01121700 KA0CDN,K0EC,W0s CO B K6QXY
01190057 KA0CDN,K0UO,N0LL,K0EC B K6QXY
01190057 W0s CO,NE,KS >CM88 K6QXY
01190133 N0LL 59/59 KS LARRY S K6QXY
01271640 KA0CDN,K0EC,N0LL >CM88 B K6QXY
01271640 W0s CO,KS,NE >CM88 K6QXY
02011615 W0IJR >DL44 B XE2HWB
02011630 N0LL, W0s CO >CM88 B K6QXY
02040218 K0UO WEAK EM07>EN90 50.079 B AB8JH
02040259 K0HA 50.155 NS4C
02042024 K0HA 50.125 K5IX
02051829 K0HA 50.125 N3DB
02051854 K0ETC 539 50.070 B N3DB
02070121 K0HA 59>EL98JH 50.125 NN4X
02072249 K0XXX 59 EM77>DN70 50.125 K0GU
02080029 W0IJR 579 50.065 B N8UUP
02080046 K0HA 59>FM29 50.125 W5KI
02080112 K0UO 57 >FN23 50.079 B W2MPK
02080314 K0ETC EM27>EN10 50.140 K0HA
02080421 K0ETC 559 EM27>DN70 50.070 B K0GU
02080422 K0DLW DN76>EM12 DAN 50.130 WQ5W
02080434 K0KP 599 EN36>EM12 50.073 B WQ5W
02081716 N0PB 59 EM39>DN70 50.125 K0GU
02081718 K0GU 59 EM39>DN70 50.132 N0PB
02092324 K0KT 50.125 K5IX
02092329 K0UO 579 50.080 B N3DB
02092340 K0KP 599 >EM75 50.099 K4KWK
02092342 NI0E 50.130 KG4QMI
02100027 K0ETC FM16>EM27 50.150 KG4QMI
02100040 K0ETC 59>FM19 50.160 H AK3E
02100045 K0ETC 59 EM27>FM29 50.160 W5KI
02100212 K0VUY 55 FWD Sc 50.150 NW5E
02100225 N0VZJ 55 EN35 50.125 NW5E
02121816 K0ETC 539 FM18 50.070 B N3DB
02122042 WA0EFB FM16>EM48 50.135 KG4QMI
02122108 W0DYI FM16>EM48 50.135 KG4QMI
02122127 KC0QMO FM16>EM39 50.125 KG4QMI
02150348 K0KP 53A AUR 50.073 B K9MU
02161802 K0KP 599 EN36>DN70 50.073 B K0GU
02161905 K0GU WEAK DN70>EN52 50.125 W9RM
02170005 KB0PE 599 50.097 W1JJ
02170029 K0RPT 50.125 N4HN
02170106 K0RPT EN10 50.125 K5IX
02170111 KB0PE EM48>FN42 50.190 N1JFU
02170148 KA0BVG 59 EN13>FM18 50.125 KA6AKH
02170238 K0ETC EM27>DN70 50.070 B K0GU
02250227 K0HA 57 EN10>EN90 50.125 AB8JH
02250240 K0HA 59 ES 50.135 N3DB
02250316 K0HA EN10 50.125 W5KI
02290343 KG0VL/0 419 EN48>EN44 .125 K9MU

Reports of Oceania

AUSTRALIA, General

01120142 VK TV VID S9+ 46.240,46.172 V K6QXY
01210111 VK TV VIDEO >CM88 46.XX V K6QXY
02150259 VK TV VIDEO S1 46.240 V K6QXY

Australia-New South Wales-VK2

01120158 VK2BN 519/559 >CM88 50.110 C K6QXY
01210156 VK2ZXC 539/579 50.110 C W6JRA

Australia-Victoria-VK3

02220514 VK3DUT SSB 50.110 JG3LEB

Australia-Queensland-VK4

02042254 VK4ADM S9 50.130 VK5UBC
02151126 VK4RTL 50.087 B JG3LEB
02151130 VK4RTL >QM05 50.0875 B JA1VOK
02170627 VK4RGG 529 QSB 50.058 B JE2XBY
02170652 VK4AHW 59 50.125 JE2XBY
02200903 VK4AHW >PM63 50.110 S JA5CMO
02200907 VK4BLK CW 50.111 JG3LEB
02250643 VK4JOO SSB 50.110 JG3LEB
02250651 VK4AN 50.110 S HL1LTC
02250702 VK4AN CW 50.110 JR2HCB
02260446 VK4BLK CQ CW STRONG 50.111 JG3LEB
02270433 VK4RGG 539 50.057 B JH7XRZ
02280447 VK4RGG >PM85 50.058 B JR2HCB
02280450 VK4JSR 59 CQ 50.110 JR2HCB
02280455 VK4TU 50.150 JR5XPG
02280458 VK4JSR GOOD SIG 50.140 JR5XPG
02280504 VK4JSR 59 50.140 DS4EOI
02280509 VK4BLK CQ>PM85 50.110 JR2HCB
02280515 VK4BLK BIG SIG 50.130 JR5XPG
02280516 VK4JSR 50.140 DS5KJR
02280532 VK4BLK SSB WKG JAs 50.130 HL1LTC
02280534 VK4AHW SSB 59 50.120 HL1LTC
02280556 VK4ID SSB 50.140 JG3LEB
02280600 VK4APG 59 >PM37 50.210 HL1LTC

South Australia-VK5

02280510 VK5VF WEAK>PM85 52.450 B JR2HCB

West Australia-VK6

02030327 VK6RPH S9 50.066 B VK5UBC
02030334 VK6JJ 59 50.130 VK5UBC
02030940 VK6BE >PM53 50.110 C JA6RJK
02061135 VK6RSX 50.304 B JG3LEB
02151105 VK6RSX >QM05 50.304 B JA1VOK
02151106 VK6RSX 50.304 B JG3LEB
02190740 VK6RSX >QM05 50.304 B JA1VOK
02200526 VK6JA 50.110 W VK5UBC
02280940 VK6RSX 50.304 B JG3LEB
02281147 VK6RSX BACK> 50.304 B JG3LEB
02291130 VK6RSX 50.304 B JG3LEB

Australia-Tasmania-VK7

02200534 VK7ZIF 59 50.110 W VK5UBC
02220512 VK7RST 50.298 B JG3LEB

Australia-Northern Terr.

02020655 VK8RAS >QM05 50.047 B JA1VOK
02020656 VK8GF >QM05 50.110 H JA1VOK
02150556 VK8RAS 50.047 B JG3LEB
02150622 VK8RAS 599>PM37 50.047 B HL1LTC
02151247 VK8MS >QM05 50.110 H JA1VOK
02151247 VK8MS CQ SSB 50.110 JG3LEB
02190730 VK8RAS >QM05 50.047 B JA1VOK
02190732 VK8GF >QM05 50.110 H JA1VOK
02201230 VK8RAS FB 50.047 B JG3LEB

02250640 VK8RAS 599>PM37 50.047 B HL1LTC
02250703 VK8RAS 559 50.047 B JR2HCB
02280448 VK8RAS >PM85 50.047 B JR2HCB
02281149 VK8MS CQ CW 50.110 JG3LEB
02290537 VK8RAS >PM85 50.047 B JR2HCB
02291205 VK8MS CQ SSB 50.110 JG3LEB

MARSHALL IS.

02220121 V73SIX >QM07 50.014 B JA7WSZ

NEW CALEDONIA

02060619 FK8SIX 50.080 B JG3LEB
02060625 FK8SIX >QM05 50.080 B JA1VOK
02151110 FK8SIX >QM05 50.080 B JA1VOK
02170605 FK8SIX FB 50.079 B JG3LEB

NEW ZEALAND

01012330 ZL TV VIDEO >CM88 45.2X V K6QXY
01032050 ZL TV VIDEO S5 >CM88 45.2X V K6QXY
01071900 ZL TV VIDEO STRONG & EARLY V K6QXY
01112127 ZL TV VIDEO S1-5 V K6QXY
01122229 ZL TV VID WEAK >CM88 45.2X V K6QXY
01162015 ZL TV VID S1-S5 45.2X V K6QXY
01200400 ZL TV VIDEO VY LATE 45.2X V K6QXY
01210111 ZL TV VIDEO >CM88 45.2X V K6QXY
01220250 ZL TV VIDEO S1-5 45.2X V K6QXY
01222100 ZL TV VIDEO S1-5 45.2X V K6QXY
01270100 ZL TV VID, AUDIO 50.75/.76 F K6QXY
01280000 ZL3SIX >QM05 50.040 B JA1VOK
02040300 ZL TV VIDEO S9++ 45.2X V K6QXY
02040457 ZL1VHF >QM09 50.043 B JH7XRZ
02040457 ZL1VHF 559 50.043 B JH7XRZ
02142222 ZL TV VIDEO S5 45.240 V K6QXY
02150221 ZL1VHF 50.043 B JG3LEB
02222300 ZL TV VIDEO S1, S50(23)0030 V K6QXY

PHILLIPINES

01300830 DU1EV >QM05 50.008 B JA1VOK
01310835 DU1EV >QM05 50.008 B JA1VOK
01310925 DU1/GM4COK >QM05 50.110 H JA1VOK
01310945 DU7/N7ET PJ19>QM05 50.110 H JA1VOK
02100557 DU1EV >QM09 50.008 B JH7XRZ
02100557 DU1EV 539 50.008 B JH7XRZ
02100800 DU1EV >QM05 50.008 B JA1VOK
02111254 DU7/N7ET >QM05 50.110 H JA1VOK
02111254 DU7/N7ET CW 50.110 JG3LEB
02120615 DU1EV >QM05 50.008 B JA1VOK
02151115 DU1EV >QM05 50.008 B JA1VOK
02151124 DU7/N7ET & 1128 50.110 H JA1VOK
02151124 DU7/N7ET CW 50.110 JG3LEB
02151153 DU1EV 50.008 JG3LEB
02151156 DU7/N7ET SSB 50.130 JP1GUW
02151208 DU7/N7ET 50.130 JR7DXN
02211201 DU1EV 50.008 B JG3LEB
02291239 DU1EV 50.008 B JG3LEB

SABAH

02211216 9M6/JA1CJP CQ CW 50.110 JG3LEB

Reports of South America

ARGENTINA

02142352 LU8DIO 55 >FN00 50.112 W3TC
02142354 LW3DX 50.112 W3TC
02142355 LU8DIO 50.110 W3TC
02202340 LU8DIO 57 50.110 WP4NEG
02212321 LU8EMH 55>FK96 50.115 FG1GW
02260017 LU2DKX FF94 TEODORO 50.110 WP4NEG
02260026 LU1BQ GF05 JOSE 50.110 WP4NEG
02260057 LU6QI FF67 50.110 WP4NEG
02260102 LU8EMH FF94 JUAN 50.110 WP4NEG

ARUBA

02232349 P43L 50.120 PP5NW

BRAZIL

02040140 PY2TVI CQ DX 50.110 PU2WDX
02122357 PR1RO 579 >FK60 50.110 YV1DIG
02162138 PY1RO 559 CQ 50.110 EA7KW
02190115 PY2BT CQ 50.110 PU2WDX
02202324 PY2CDS 59 50.135 WP4NEG
02202334 PY2TC 57 50.110 WP4NEG
02202336 PY2AIM 59 50.110 WP4NEG
02202350 PY1WAG 57 50.110 WP4NEG
02232327 PP5ZAS CQ >FK68 50.110 WP4NEG
02232332 PP5WAS 59 50.110 WP4NEG
02232340 PY1WMJ 57 50.110 WP4NEG
02232341 PP5ZAS 56 GG42>FK68 50.110 WP4NIX
02240013 PS7DX CW 50.109 PP5NW
02252357 PY4AJ 58 GH70 50.110 WP4NEG
02260004 PY1WAG 54 50.110 WP4NEG
02260010 PY1NB 57 GG87 50.110 WP4NEG
02260023 PY1BQ 55 50.110 WP4NEG
02260054 PY2MEM MARCO 50.119 WP4NEG
02260105 PY2NQ 59 GG66 50.110 WP4NEG
02260112 PP5XZ CQ DX 50.110 PY8AZT
02260121 PY8AZT CLG DX 50.120 PY2PT
02260146 PY8AZT 50.120 PY2KX

CURACAO NETH. ANTILLES

02260145 PJ2BVE 50.110 PY2KX

PARAGUAY

02232346 ZP5CGL 57 50.110 WP4NEG
02232353 ZP5CGL 55 GG14>FK68 50.110 WP4NIX

PERU (Chimus Is.)

02152014 OC3I 50.111 AA5XE
02152022 OC3I 50.110 AB5A
02152026 OC3I 59 FI00>EL98 >2105 NW5E
02152031 OC3I 50.110 W5ZN

TRINIDAD & TOBAGO

02190004 9Y4AT WEAK 50.015 B PP5JD
02202320 9Y4AT FK90 50.014 B PY3OG
02260106 9Z4BM CQ DX 50.110 PY2NQ
02291845 9Y4AT 519 50.015 B 5T5SN

URUGUAY

02160102 CX4CR 56 GF15>FK68 50.120 WP4NIX
02202355 CX2IY 57 GF17 50.110 WP4NEG
02232344 CX2BBR 57 FG15 50.110 WP4NEG
02260029 CX7BJ JAIME GF15 50.120 WP4NEG

VENEZUELA

02190110 YV5MM CQ 50.110 PU2WDX

QSL Information

5Z4HW: via DL7DF
C6AGN: via W1DIG
C6APX: via KC4PX
OC3I: via OA4DJW
T88LZ: via JR1LZK
V26DX: via KU9C
V31RG: via K4VU
VK9LB: via DL7AFS direct or bureau
XF4IH: via XE1IH, Enrique Garcia Munive, P.O. Box 118-481, 07051 Mexico D.F., MEXICO
XU7AAA: P.O. Box 10003, Vientiane, LAOS

Photo credits to JA1VOK

FIELDHUNTER'S LIST

This is a list of radio amateurs' efforts to chase and collect fields (big squares) according to the Maidenhead Locator System. Jon, SM3OJR, of Top Of Europe Contesters (TOEC) is the keeper of lists of standings of grid fields worked by radio amateurs on HF, VHF, and UHF bands.

The latest 50 MHz standings are listed below. In the list, the columns are: Position on list; Callsign; The station's own field; Number of fields worked; and Date last updated.

Readers are reminded that a grid **field** is a block of 10° latitude by 20° longitude, and is the first two letters of a grid **square** as determined by the Maidenhead Locator System.

Please send any updates to TOEC, Box 178, SE-831 22 Ostersund, SWEDEN. Fax +46-63-572122. E-mail: fieldlist@pobox.com Web page http://www.pobox.com/~field

RULES:

1. All fields must have been worked via passive reflectors.
2. All stations involved must be on the earth's surface.
3. QSL cards are not required if you are certain that the other station considers the QSO to have been completed.
4. All QSOs must have been worked from points within a circle of 1000 km radius.
5. There is no starting date for contacts to be eligible.

Field Hunter's Top List

50 MHz Standings as of January 27, 2004

Rank	Call	Field	Fields	YYMM
1	JA1VOK	QM	126	0306
2	JA6RJK	PM	112	0205
3	IK0FTA	JN	109	0307
4	EH7KW	IM	109	0310
5	PY5CC	GG	106	0108
6	ON4ANT	JO	106	0208
7	SV1DH	KM	105	0304
8	JA6TEW	PM	104	0205
9	IK2GSO	JN	104	0304
10	JM1SZY	PM	103	0212
11	I0WTD	JN	102	0312
12	5B4AGM	KM	99	0304
13	DL7QY	JN	98	0204
14	9H1PA	JM	97	0205
15	IZ0FCC	JN	97	0301
16	SM7FJE	JO	96	0206
17	G0JHC	IO	96	0310
18	DL7AV	JN	94	0301
19	YT1AU	KN	93	0205
20	SM7AED	JO	93	0301
21	I5MXX	JN	93	0308
22	W7RV	DM	92	0201
23	G3FPQ		92	0204
24	IK5RLP	JN	92	0210
25	SM7BAE	JO	92	0210
26	W5OZI	EM	92	0307
27	G4IGO	IO	91	0202
28	DJ3TF	JN	91	0208
29	G3WOS	IO	91	0301
30	VR2XMT	OL	91	0304
31	KH6SR	BK	88	0010
32	PA0HIP	JO	88	0011
33	W6BYA	CM	88	0108
34	JO6EDD	PM	88	0204
35	EH8BPX	IL	88	0205
36	GW4VEQ	IO	88	0207
37	TI5KD	EJ	88	0304
38	K1TOL	FN	88	0312
39	F5LNU	JN	87	0207
40	YT1VV	JN	87	0211
41	PA4PA	JO	87	0211
42	VK3SIX	QF	87	0212
43	F8OP	JN	87	0307
44	SP6GWB	JO	86	0210
45	IW0GPN	JN	86	0307
46	PA0RDY	JO	85	0307
47	9H5EE	JM	83	0105
48	K1SIX	FN	83	0211
49	K5AM	DM	83	0303
50	VE1YX		83	0308
51	YU1EU	KN	82	0202
52	AA7A	DM	82	0203
53	S52SK	JN	82	0209
54	YU7FU	KN	82	0307
55	W5FF	DM	81	9708
56	N6CA		81	0203
57	ON4KST	JO	80	0011
58	G8BCG	IO	79	0204
59	PE1LCH	JO	78	0201
60	OZ3ZW	JO	77	0201
61	K1SG	FN	77	0210
62	IZ5ENH	JN	77	0211
63	AA5XE	EM	75	0301
64	4N1NB	KN	74	0203
65	F6GEX	IN	74	0204
66	ON4PS	JO	74	0211
67	WB8XX	EM	74	0307
68	F6HRP	JN	73	0202
69	WD5K	EM	72	0007
70	IW1AZJ	JN	72	0301
71	N3DB	FM	72	0307
72	GW7SMV		71	0204
73	DL1EJA	JO	71	0307
74	W4DR	FM	70	9602
75	VK4APG	QG	70	9612
76	N0LL	EM	70	9801
77	EH7CD	IM	70	0105
78	F3CN	JN	70	0203
79	W3BO	FN	70	0205
80	GW8ASA	IO	70	0206
81	N5JHV	DM	69	9605
82	IK1EGC	JN	69	0105
83	W4UDH	EM	69	0312
84	TI2NA	EJ	68	9503
85	PA2VST	JO	68	9805
86	CT1DYX	IN	68	0011
87	YU1HQR	JN	68	0204
88	NH7RO	BK	68	0306
89	F5DE	JN	68	0401
90	KB6NAN	CM	67	0211
91	K0ETC	EM	67	0212
92	G1IOV	IO	67	0301
93	YT1VP	JN	67	0307
94	ZS6WB	KG	66	0303
95	G4UPS	IO	65	9610
96	G4CCZ	IO	65	9908
97	YO7VS	KN	65	0106
98	SM7SCJ	JO	65	0201
99	W4TJ	FM	65	0202
100	S59F	JN	65	0211
101	PA3BFM	JO	64	9606
102	CT3HF	IM	64	0208
103	OH1LEU	KP	64	0311
104	PA0OOS	JO	63	9707
105	K1GPJ	FN	63	0001
106	G3OIL	IO	63	0102
107	YU1BW	KN	63	0201
108	OE3MWS	JN	63	0203
109	KG6UH/DU1	PK	62	9709
110	SV1EN	KM	62	9803
111	VR2XMQ	OL	62	0006
112	ON5PU	JO	62	0204
113	KH6HH	BL	61	9505
114	W3EP	FN	61	9601
115	WA5JCI	EM	61	9708
116	N4CH	FM	61	0011
117	S57AC		61	0101
118	G0FYD	IO	61	0111
119	F1AKE	IN	61	0301
120	OZ1IEP	JO	61	0303
121	K0CS	DM	61	0306
122	W9JUV	EN	61	0310
123	H44PT	QI	60	0204
124	WB8YFE	EN	59	9706
125	PE1GNP	JO	59	0204
126	SM0KCR	JO	59	0301
127	PA1SIX	JO	58	9706
128	W1JR	FN	58	9811
129	GI0OTC	IO	58	9908
130	K5IUA	EL	58	0010
131	W8TN	EM	58	0201
132	OE4WHG	JN	58	0203
133	W8UV	EM	57	0201
134	WA5IYX	EL	56	9508
135	F1GTU	JN	56	9705
136	GW8FKB	IO	56	9711
137	AA6TT/1	FN	56	0201
138	K6FV	CM	56	0205
139	K0TLM	EM	55	9508
140	W3ZZ	FM	55	9601
141	N0KE	DM	55	9708
142	OZ0JX	JO	55	0207
143	W4WRL	FM	55	0309
144	VE3KZ	FN	54	0301
145	ZS6NK	KG	54	0303
146	OZ5IQ	JO	53	0112
147	VE7XF	CN	53	0209
148	G4IFX	IO	52	9510
149	WA2TEO	FN	52	9604
150	K4ZOO	FM	52	9706
151	W0JRP	EM	52	0201
152	KE7CX	CN	51	9605
153	W5AL	DM	51	9707
154	KY5N	EM	51	0109
155	EI7GL	IO	51	0112
156	W6YLZ	DM	50	9701
157	W0FY	EM	50	9707
158	PA2TAB	JO	50	9903
159	K6EID	EM	50	0001
160	NW5E	EL	50	0301
161	KL7NO	BP	49	0303
162	W5UWB	EL	49	0303
163	I0CUT	JN	48	9504
164	WA5QCP	DM	48	9509
165	ZL3AAU	RE	48	9801
166	W1AIM	FN	47	0004
167	YO7LXT	KN	47	0107
168	G4HBA	IO	46	9502
169	VE3FGU	FN	46	9708
170	K0CJ	EN	46	0204
171	VE3TMG	EN	46	0401
172	DJ1OJ	JN	45	9707
173	DJ9ON	JO	45	9908
174	LY2SA	KO	45	0203
175	SM7NNJ	JO	45	0306
176	W3OTC	FM	44	9602
177	KA9UZW	EN	44	0202
178	K6IPF	CN	44	0301
179	VK6HK	OF	43	9510
180	N5BBO	EL	43	9606
181	WA1ECF	FN	43	0102
182	K8OOK	EN	43	0110
183	KC8LGL	EM	43	0112
184	SM7OYP	JO	43	0112
185	GM7NZI	IO	43	0202
186	K9LCR	EN	42	9601
187	VE3CTT	FN	42	9707
188	SM3EQY	JP	40	9508
189	N5HHS	EM	40	9609
190	N8NQS	EN	40	9702
191	SM0KAK	JO	38	9608
192	G6FQZ	IO	38	0111
193	SM5NVF	JO	38	0201
194	K7MCX	CN	37	9708
195	N6ZCP	DM	37	9711
196	PA5AA	JO	37	9902
197	KH2CY	FM	36	9610
198	DF9CY	JO	36	9907
199	GW6VZW	IO	35	9605
200	OZ6AQ	JO	35	0312
201	W6YLL	CM	33	9702
202	G4SEU	IO	33	9906
203	HB9SJV	JN	32	9908
204	G8BKF	IO	32	0205
205	SM7JUQ	JO	31	9506
206	PA0ION	JO	30	9501
207	G6LEU	IO	30	9707
208	OK1DDO	JO	30	9804
209	HP3XUG	EJ	30	9911
210	W9VA	EN	30	9912
211	G3KLL	IO	29	9707
212	G4DCJ	JO	29	0008
213	VK3ALM	QF	28	9508
214	W8WNX	EN	28	9803
215	VE6XT	DO	28	9807
216	K8ZES	FN	28	9907
217	G7GXK	IO	28	0203
218	VE7SKA	CN	27	9608
219	WB7QBS	CN	27	9909
220	SM5WPW	JO	27	0208
221	ZR6DXB	KG	27	0301
222	Z23JO	KH	26	9608
223	VY2KX	FN	26	9702
224	ES6QB	KO	25	9712
225	W9JN	EN	25	9910
226	G4UCJ	IO	25	0207
227	DL3YEE	JO	25	0401
228	GJ3RAX	IN	24	9609
229	SM6MPA	JO	24	0203
230	SM4POB	JP	22	9606
231	N0HJZ	EN	22	9607
232	KL7GLL/W4	FM	22	9707
233	NL7XM	FN	21	9507
234	WA6TBO	DM	21	9801
235	N8ZJN	EM	21	9809
236	KB0PE	EM	21	9909
237	OH1AJ	KP	20	9507
238	WA9PWP	EN	20	9611
239	ES5MC	KO	20	9712
240	N0XKS	EM	20	0004
241	K7UV	DN	20	0308
242	ES1CW	KO	19	9902
243	SM3VEE	JP	19	9910
244	VE2PIJ	FN	19	0108
245	SM7WT	JO	19	0307
246	DL3AMA	JO	18	9503
247	DL5BBL	JO	18	9507
248	OH9NYW	KP	18	9701
249	DL7ANR	JO	18	9706
250	HL9UH	PK	18	9709
251	W5DO	DM	18	9912
252	PA5MS	JO	18	0203
253	PE1EBJ	JO	17	9603
254	WB8RUQ	EN	17	9606
255	ES2RJ	KO	17	9902
256	K4LYN		17	9908
257	LY2MW	KO	17	0005
258	SM7VHS	JO	17	0007
259	SM0TSC	JO	17	0306
260	KD4GVW	EM	16	9505
261	G8DCJ	IO	16	9509
262	N7YAP	DN	16	9706
263	ES5DE	KO	16	9712
264	G8CDW	JO	16	9812